AMENDMENTS TO THE SPECIFICATION

Please amend the specification at page 2, paragraph [0008] to read as follows:

[0008] In another embodiment of the of the invention, the repeat sequence protein polymer (RSPP) formula comprises:

$$T_y[(A_n)_x(B)_b(A'_{n'})_{x'}(B')_{b'}(A''_{n''})_{x''}]_iT'_{y'}$$

wherein: T and T' each comprise an amino acid or amino acid sequence of from about 1 to about 100 amino acids, wherein the amino acid or amino acid sequence of T' is the same as or different from the amino acid or amino acid sequence of T; y and y' are each an integer from 0 to 1, wherein the integer of y' is the same as or different from the integer of y; A, A' and A" are each individual repeating amino acid sequence units comprising from about 3 to about 30 amino acids, wherein the amino acid sequence of A' and the amino acid sequence of A" are the same as or different from the amino acid sequence of A; n, n', and n" are each integers of at least 2 and not more than 250; x, x' and x" are each 0 or an integer of at least 1, wherein each integer varies to provide for at least 30 amino acids in the A', A' and A" individual amino acid sequence repeating units, and wherein the integer of x' and the integer of x" are the same as or different from the integer of x; B and B' each comprise an amino acid sequence of from about 4 to about 50 amino acids, wherein the amino sequence of B' is the same as or different from the amino acid sequence of B; b and b' are each an integer from 0 to 3, wherein the integer of b' is the same as or different from the integer of b; and i is an integer from 1 to 100.

Please amend the specification at page 5, paragraph [0020] to read as follows:

[0020] In addition to repeating units derived from naturally occurring proteins, synthetic repeating amino acid sequences units may be utilized. In a particular embodiment, the repeat sequence protein polymer has the formula:

$$T_y[(A_n)_x(B)_b(A'_{n'})_{x'}(B'')_{b'}(A''_{n''})_{x''}]_iT'_{y'}$$

wherein:

T and T' each comprise an amino acid or amino acid sequence of from about 1 to about 100 amino acids, specifically an amino acid or amino acid sequence of from about 1 to about 60 amino acids, and more specifically an amino acid or amino acid sequence with fewer than 20% of the total number of amino acids in the repeat sequence protein polymer, wherein the amino acid or amino acid sequence of T' is the same as or different from the amino acid sequence of T;

y and y' are each an integer from 0 to 1, wherein the integer of y' is the same as or different from the integer of y;

A, A' and A" are each individual repeating sequence units comprising from about 3 to about 30 amino acids, wherein the amino acid sequence of A' and the amino acid sequence of A" are the same as or different from the amino acid sequence of A;

n, n', and n" are each integers of at least 2 and not more than 250;

x, x' and x" are each 0 or an integer of at least 1, wherein each integer varies to provide for at least 30 amino acids in the A', A' and A" individual repeating sequence units, and wherein the integer of x' and the integer of x" are the same as or different from the integer of x;

B and B' each comprise an amino acid sequence of from about 4 to about 50 amino acids, wherein the amino sequence of B' is the same as or different from the amino acid sequence of B;

b and b' are each an integer from 0 to 3, wherein the integer of b' is the same as or different from the integer of b; and

i is an integer from 1 to 100, specifically from 1 to 50, and more specifically from 1 to 30.